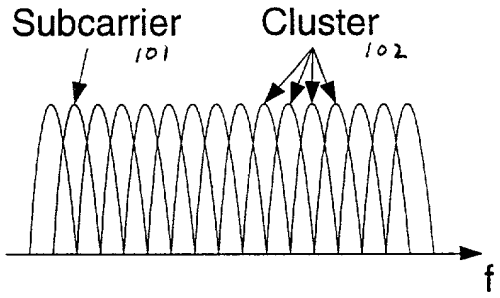

Figure 1A

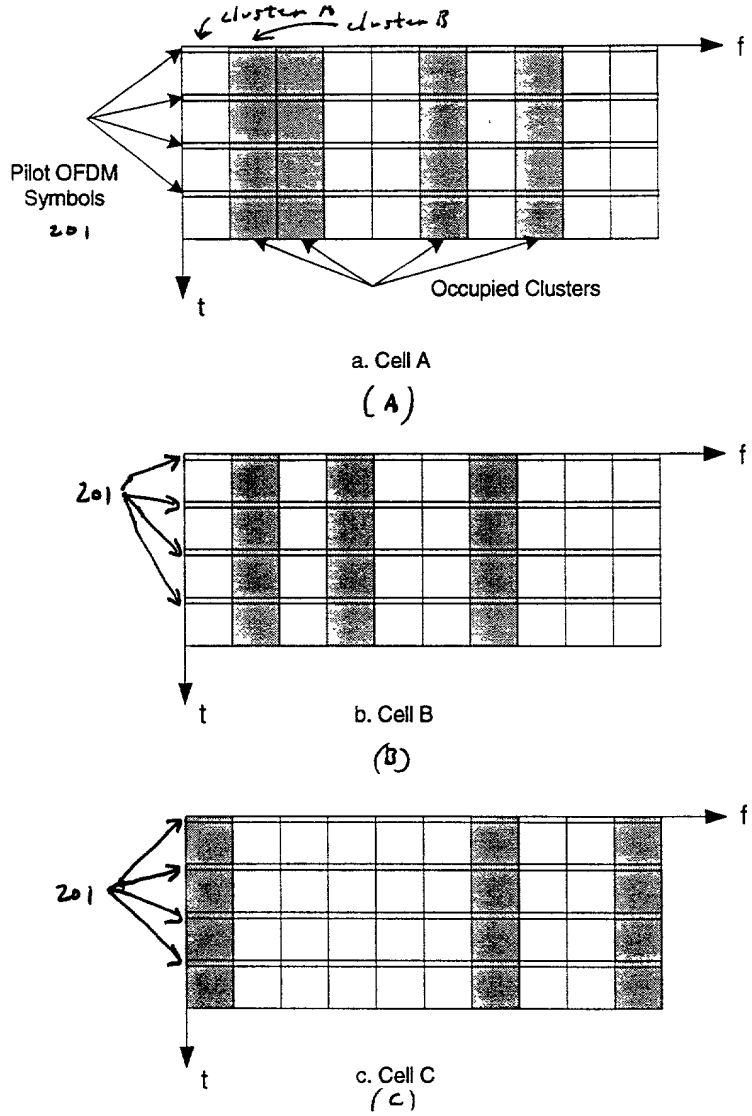

Figure 2

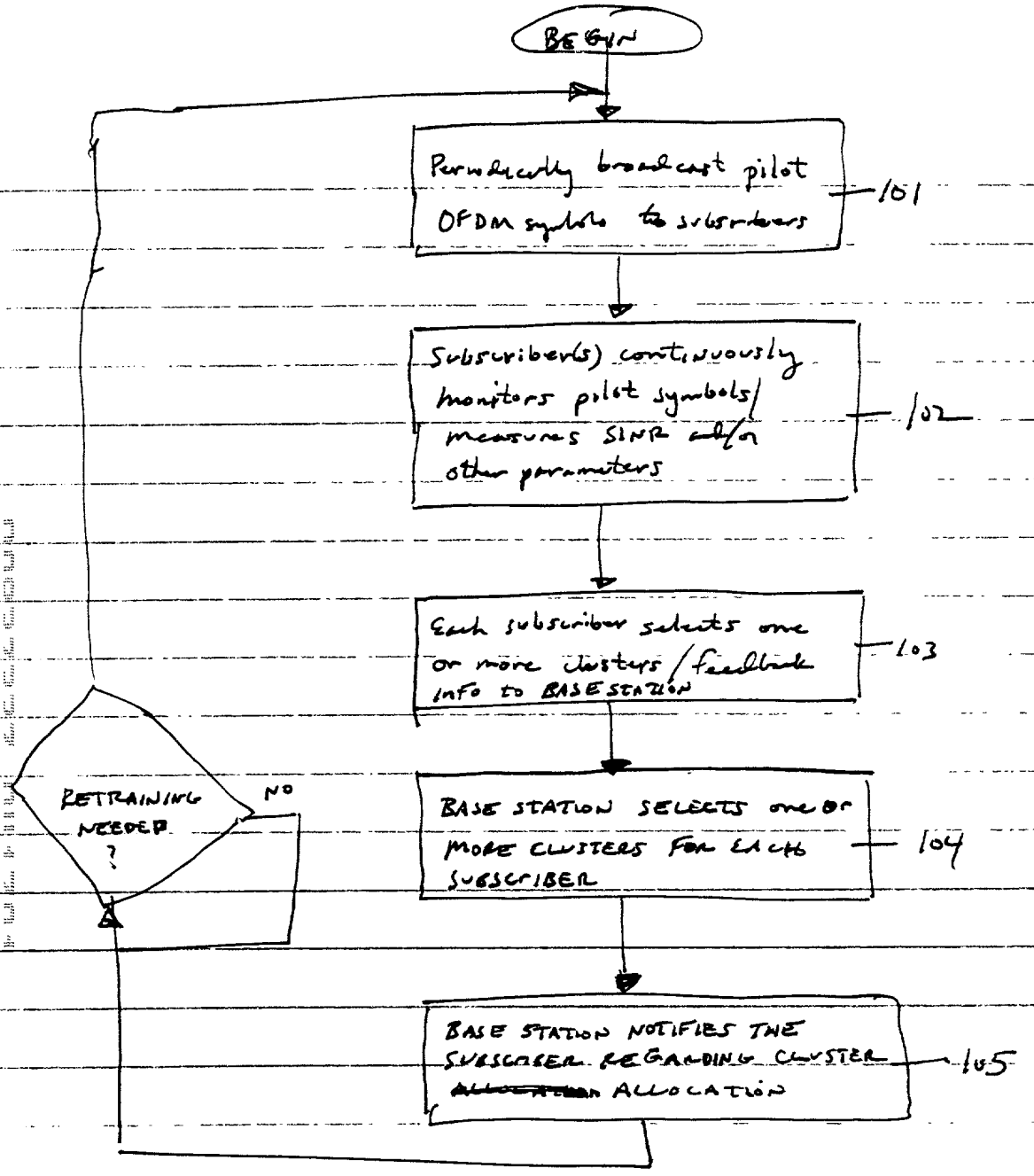
BEGIN
Periodically broadcast pilot OFDM symbols to subscribers
101
Subscriber(s) continuously monitors pilot symbols/ measures SINR and/or other parameters
102
Each subscriber selects one or more clusters / feedback info to BASE STATION
103
RETRAINING NEEDED ?
NO
BASE STATION SELECTS ONE OR MORE CLUSTERS FOR EACH SUBSCRIBER
104
BASE STATION NOTIFIES THE SUBSCRIBER REGARDING CLUSTER ALLOCATION
105

Figure 1B

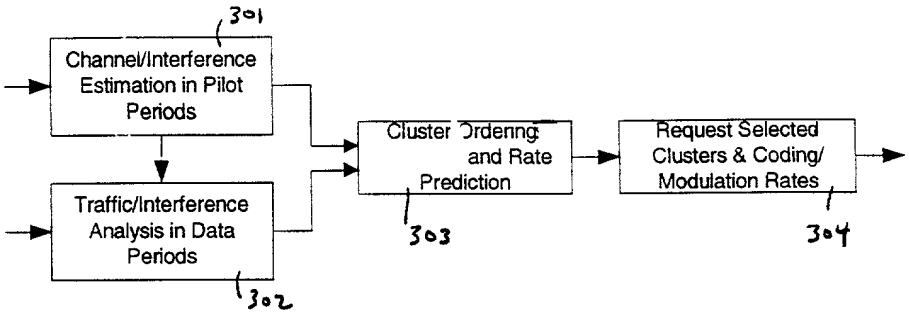

Figure 3.

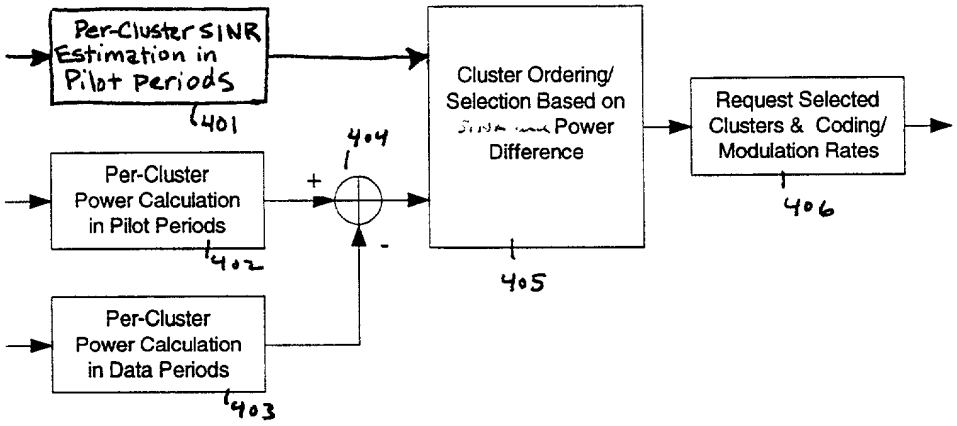

Figure 4

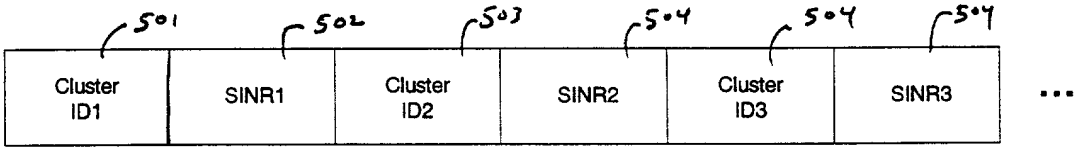

Figure 5

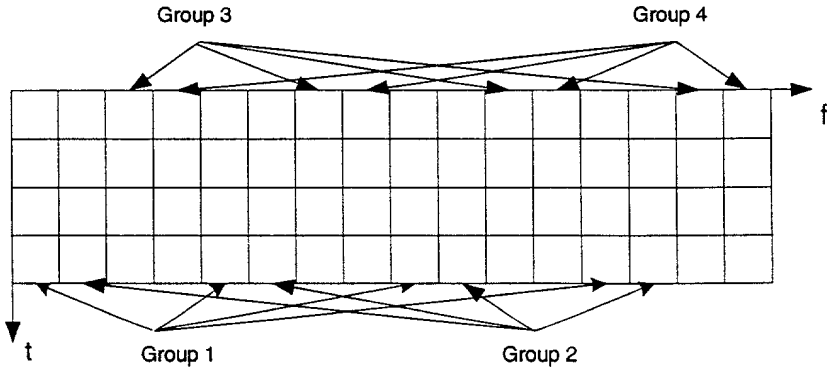

Figure 6

Group ID1	SINR1	SINR2	SINR3	Group ID2	SINR1	SINR2	SINR3

Figure 7

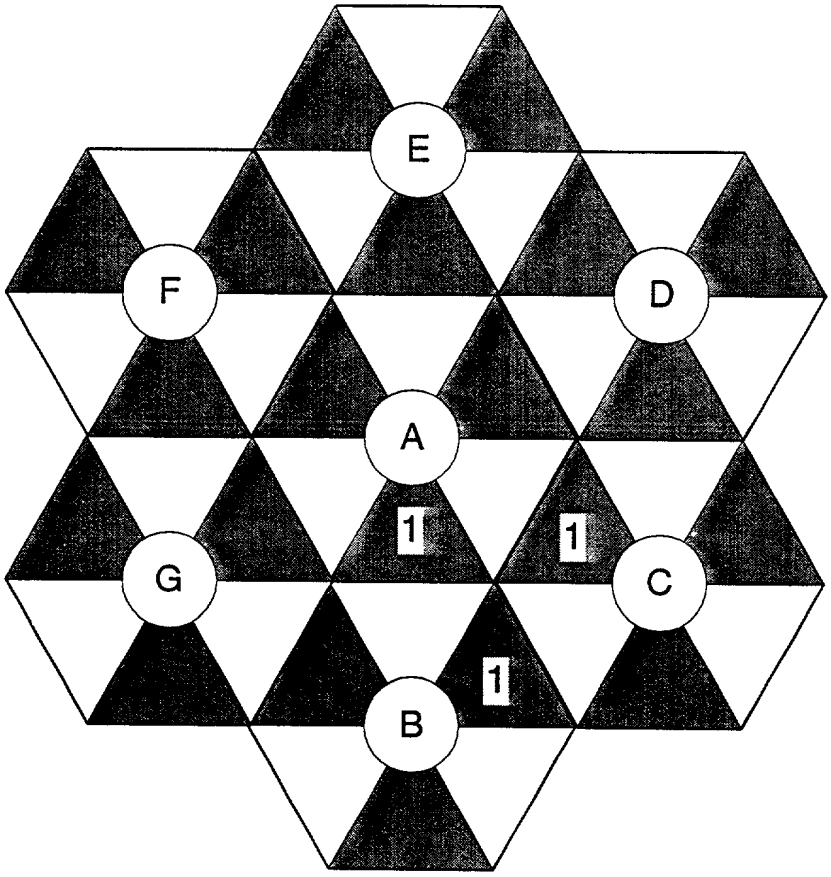

Figure 8

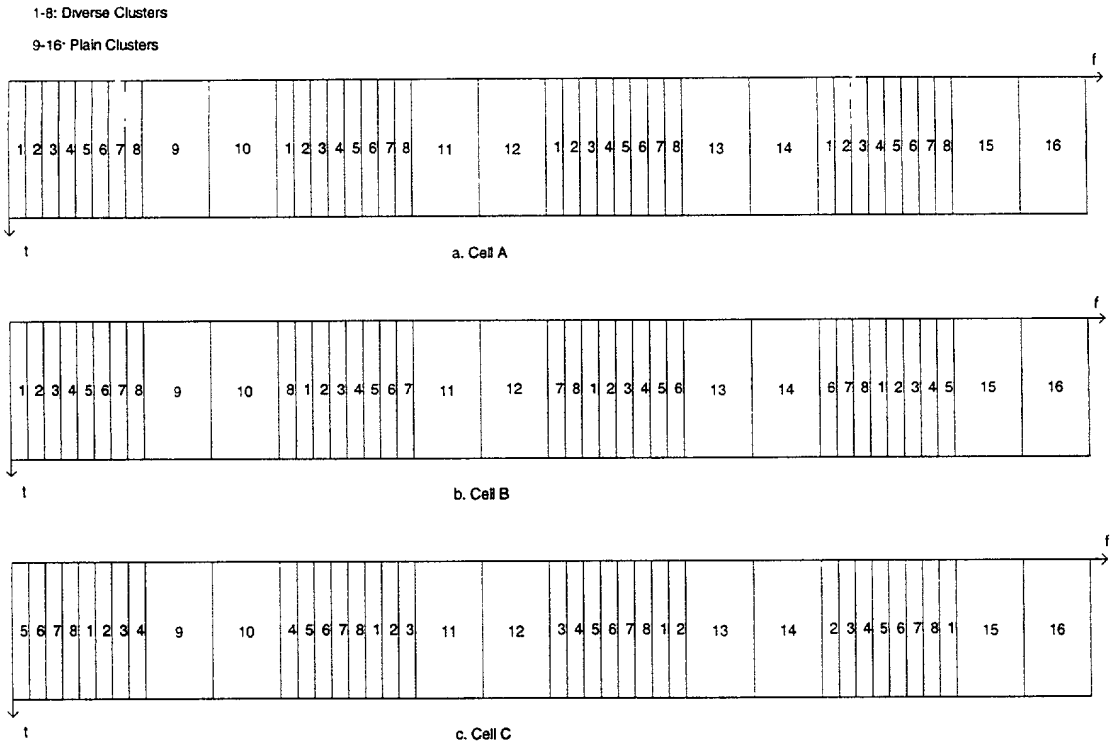

Figure 9

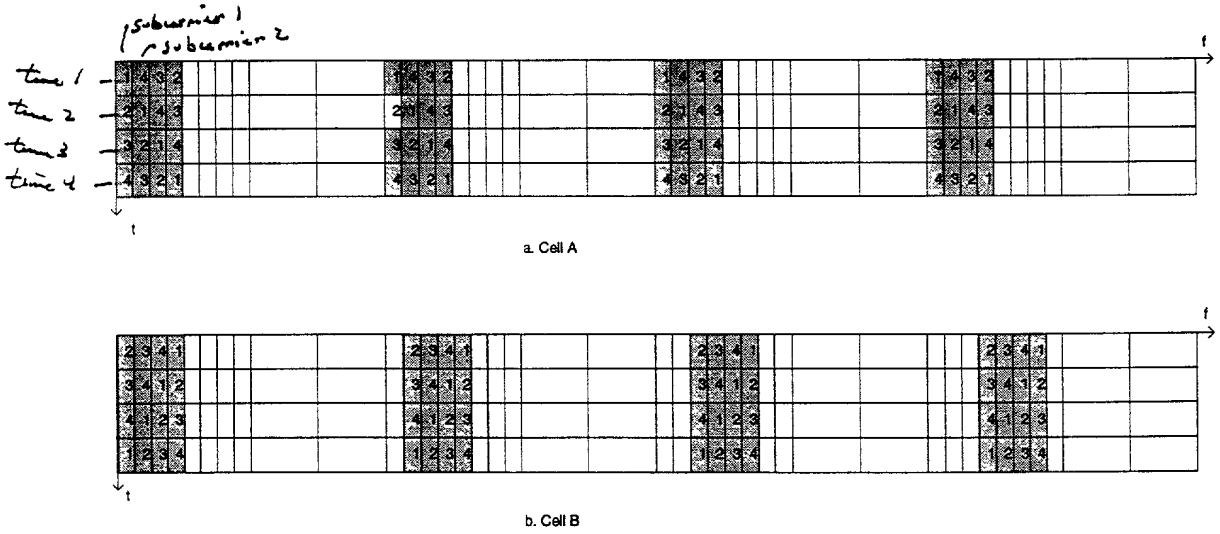

Figure 10

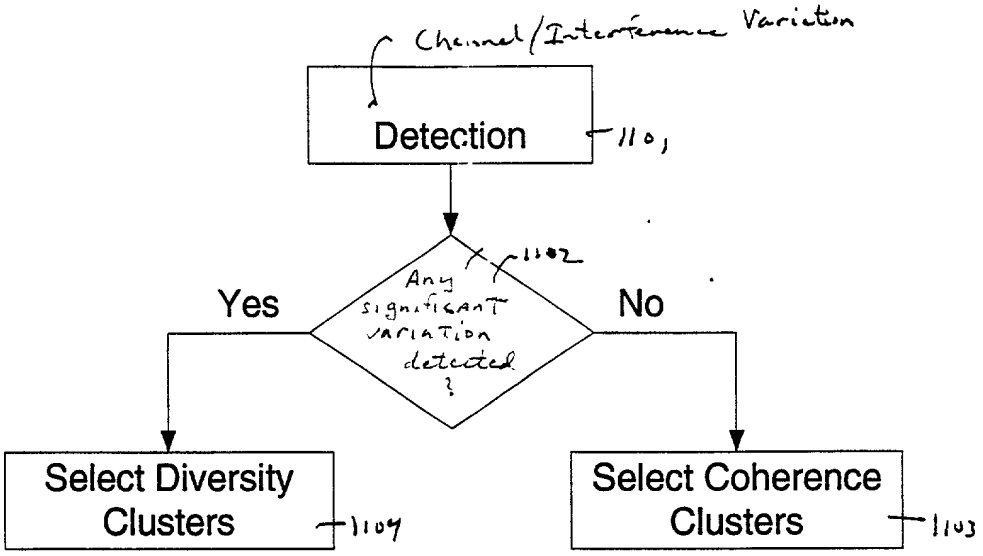

Figure 11

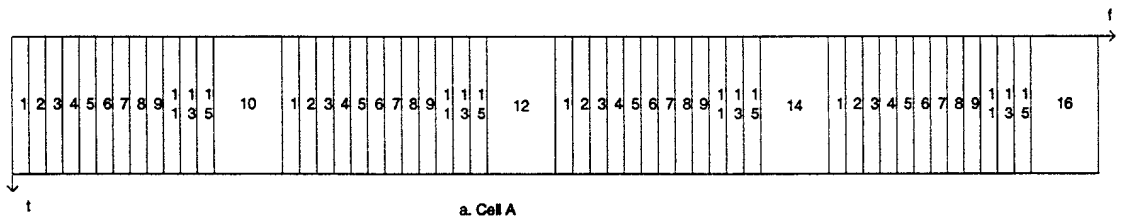

Figure 12

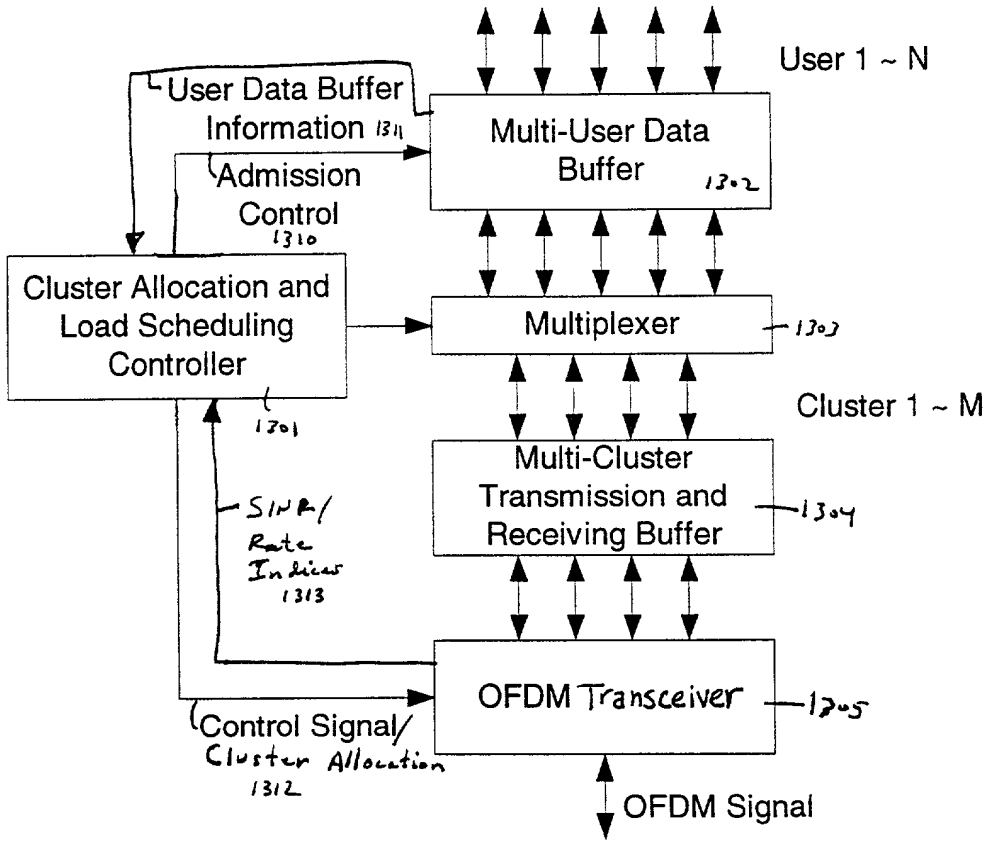
User 1 ~ N
User Data Buffer Information 1311
Admission Control 1310
Multi-User Data Buffer 1302
Cluster Allocation and Load Scheduling Controller
1301
Multiplexer 1303
Cluster 1 ~ M
Multi-Cluster Transmission and Receiving Buffer 1304
SINR/ Rate Indicator 1313
OFDM Transceiver 1305
Control Signal/ Cluster Allocation 1312
OFDM Signal

Figure 13